- 1. (original): A concentrated aqueous polymer dispersion with an average particle size of less than 1000 nm comprising
  - . a) a polymer carrier prepared by heterophase radical polymerization of at least one ethylenically unsaturated monomer in the presence of
    - b) a non-polar organic light stabilizer,

wherein the weight ratio of non-polar organic light stabilizer to polymer carrier is greater than 50 parts of light stabilizer per 100 parts of carrier.

- 2. (original): A concentrated aqueous polymer dispersion according to claim 1 comprising additionally a non-ionic, cationic or anionic surfactant.
- 3. (original): A concentrated aqueous polymer dispersion according to claim 1 wherein the weight ratio of non-polar organic light stabilizer to polymer carrier is equal or greater than 80 parts per 100 parts.
- 4. (original): A concentrated aqueous polymer dispersion according to claim 1 wherein the average particle size is less than 500 nm.
- 5. (original): A concentrated aqueous polymer dispersion according to claim 1 wherein the non-polar organic light stabilizer is selected from the group consisting of a hydroxyphenyl benzotriazol UV-absorber, a hydroxyphenyl triazine UV-absorber, a hydroxybenzophenone UV-absorber, an oxalic anilide UV-absorber and a sterically hindered amine light stabilizer or mixtures thereof.
- 6. (original): A concentrated aqueous polymer dispersion according to claim 1 wherein the non-polar organic light stabilizer has a water solubility of less than 1 % by weight at room temperature and atmospheric pressure.
- 7. (original): A concentrated aqueous polymer dispersion according to claim 1 wherein the ethylenically unsaturated monomer is selected from the group consisting of C<sub>1</sub>-C<sub>18</sub>acrylates, C<sub>1</sub>-C<sub>18</sub>methacrylates, acrylic acid, (meth)acrylic acid, styrene, vinyltoluene, hydroxy-functional acrylates or (meth)acrylates or (meth)acrylates derived from alkoxylated alcohols and multifunctional acrylates or (meth)acrylates or mixtures thereof.

8. (original): A concentrated aqueous polymer dispersion according to claim 5 wherein the hydroxybenzophenone is of formula I

the 2-hydroxyphenylbenzotriazole is of formula IIa, IIb or IIc

the 2-hydroxyphenyltriazine is of formula III

$$(Y_1)_r$$
  $(Y_1)_r$   $(III)_r$ 

and the oxanilide is of formula (IV)

$$(L)_{y} \xrightarrow{H} \stackrel{O}{\longrightarrow} H \xrightarrow{(IV)} ; \text{ wherein}$$

in the compounds of the formula (I) v is an integer from 1 to 3 and w is 1 or 2 and the substituents Z independently of one another are hydrogen, halogen, hydroxyl or alkoxy having 1 to 12 carbon atoms;

in the compounds of the formula (IIa),

R<sub>1</sub> is hydrogen, alkyl having 1 to 24 carbon atoms, phenylalkyl having 1 to 4 carbon atoms in the alkyl moiety, cycloalkyl having 5 to 8 carbon atoms or a radical of the formula

$$\begin{array}{c} R_4 \\ - R_5 \end{array}$$
 in which

 $R_4$  and  $R_5$  independently of one another are alkyl having in each case 1 to 5 carbon atoms, or  $R_4$ , together with the radical  $C_nH_{2n+1-m}$ , forms a cycloalkyl radical having 5 to 12 carbon atoms, m is 1 or 2, n is an integer from 2 to 20 and

M is a radical of the formula -COOR<sub>6</sub> in which

 $R_6$  is hydrogen, alkyl having 1 to 12 carbon atoms, alkoxyalkyl having in each case 1 to 20 carbon atoms in the alkyl moiety and in the alkoxy moiety or phenylalkyl having 1 to 4 carbon atoms in the alkyl moiety,

R<sub>2</sub> is hydrogen, halogen, alkyl having 1 to 18 carbon atoms, and phenylalkyl having 1 to 4 carbon atoms in the alkyl moiety, and

 $R_3$  is hydrogen, chlorine, alkyl or alkoxy having in each case 1 to 4 carbon atoms or -COOR<sub>6</sub> in which  $R_6$  is as defined above, at least one of the radicals  $R_1$  and  $R_2$  being other than hydrogen;

in the compounds of the formula (IIb)

T is hydrogen or alkyl having 1 to 6 carbon atoms,

 $T_1$  is hydrogen, chlorine or alkyl or alkoxy having in each case 1 to 4 carbon atoms, n is 1 or 2 and,

if n is 1.

 $T_2$  is chlorine or a radical of the formula -OT<sub>3</sub> or -N and,

$$T_6$$
 or -O- $T_9$ -O-;

in which

 $T_3$  is hydrogen, alkyl which has 1 to 18 carbon atoms and is unsubstituted or substituted by 1 to 3 hydroxyl groups or by -OCOT<sub>6</sub>, alkyl which has 3 to 18 carbon atoms, is interrupted once or several times by -O- or -NT<sub>6</sub>- and is unsubstituted or substituted by hydroxyl or -OCOT<sub>6</sub>, cycloalkyl which has 5 to 12 carbon atoms and is unsubstituted or substituted by hydroxyl and/or alkyl having 1 to 4 carbon atoms, alkenyl which has 2 to 18 carbon atoms and is unsubstituted or substituted by hydroxyl, phenylalkyl having 1 to 4 carbon atoms in the alkyl moiety, or a radical of the formula -CH<sub>2</sub>CH(OH)-T<sub>7</sub>

or 
$$-CHCH_2$$

T<sub>4</sub> and T<sub>5</sub> independently of one another are hydrogen, alkyl having 1 to 18 carbon atoms, alkyl which has 3 to 18 carbon atoms and is interrupted once or several times by -O- or

-NT<sub>6</sub>-, cycloalkyl having 5 to 12 carbon atoms, phenyl, phenyl which is substituted by alkyl having 1 to 4 carbon atoms, alkenyl having 3 to 8 carbon atoms, phenylalkyl having 1 to 4 carbon atoms in the alkyl moiety or hydroxyalkyl having 2 to 4 carbon atoms,

 $T_6$  is hydrogen, alkyl having 1 to 18 carbon atoms, cycloalkyl having 5 to 12 carbon atoms, alkenyl having 3 to 8 carbon atoms, phenyl, phenyl which is substituted by alkyl having 1 to 4 carbon atoms, phenylalkyl having 1 to 4 carbon atoms in the alkyl moiety,

T<sub>7</sub> is hydrogen, alkyl having 1 to 18 carbon atoms, phenyl which is unsubstituted or substituted by hydroxyl, phenylalkyl having 1 to 4 carbon atoms in the alkyl moiety, or -CH<sub>2</sub>OT<sub>8</sub>,

T<sub>8</sub> is alkyl having 1 to 18 carbon atoms, alkenyl having 3 to 8 carbon atoms, cycloalkyl having 5 to 10 carbon atoms, phenyl, phenyl which is substituted by alkyl having 1 to 4 carbon atoms, or phenylalkyl having 1 to 4 carbon atoms in the alkyl moiety.

T<sub>9</sub> is alkylene having 2 to 8 carbon atoms, alkenylene having 4 to 8 carbon atoms, alkynylene having 4 carbon atoms, cyclohexylene, alkylene which has 2 to 8 carbon atoms and is interrupted once or several times by -O-, or a radical of the formula -CH<sub>2</sub>CH(OH)CH<sub>2</sub>OT<sub>11</sub>OCH<sub>2</sub>CH(OH)CH<sub>2</sub>- or -CH<sub>2</sub>-C(CH<sub>2</sub>OH)<sub>2</sub>-CH<sub>2</sub>-,

 $T_{10}$  is alkylene which has 2 to 20 carbon atoms and can be interrupted once or several times by -O-, or cyclohexylene,

T<sub>11</sub> is alkylene having 2 to 8 carbon atoms, alkylene which has 2 to 18 carbon atoms and is interrupted once or several times by -O-, 1,3-cyclohexylene, 1,4-cyclohexylene, 1,3-phenylene or 1,4-phenylene, or

 $T_{10}$  and  $T_{6}$ , together with the two nitrogen atoms, are a piperazine ring;

in the compounds of formula (IIc)

R'<sub>2</sub> is C<sub>1</sub>-C<sub>12</sub>alkyl and k is a number from 1 to 4;

in the compounds of the formula (III)

u is 1 or 2 and r is an integer from 1 to 3, the substituents

Y<sub>1</sub> independently of one another are hydrogen, hydroxyl, phenyl or halogen, halogenomethyl, alkyl having 1 to 12 carbon atoms, alkoxy having 1 to 18 carbon atoms, alkoxy having 1 to 18 carbon atoms which is substituted by a group -COO(C<sub>1</sub>-C<sub>18</sub>alkyl);

if u is 1.

Y<sub>2</sub> is alkyl having 1 to 18 carbon atoms, phenyl which is unsubstituted or substituted by hydroxyl, halogen, alkyl or alkoxy having 1 to 18 carbon atoms;

alkyl which has 1 to 12 carbon atoms and is substituted by -COOH, -COOY<sub>8</sub>, -CONH<sub>2</sub>, -CONHY<sub>9</sub>, -CONY<sub>9</sub>Y<sub>10</sub>, -NH<sub>2</sub>, -NHY<sub>9</sub>, -NH<sub>2</sub>, -NHCOY<sub>11</sub>, -CN and/or -OCOY<sub>11</sub>;

alkyl which has 4 to 20 carbon atoms, is interrupted by one or more oxygen atoms and is unsubstituted or substituted by hydroxyl or alkoxy having 1 to 12 carbon atoms, alkenyl having 3 to 6 carbon atoms, glycidyl, cyclohexyl which is unsubstituted or substituted by hydroxyl, alkyl having 1 to 4 carbon atoms and/or -OCOY<sub>11</sub>, phenylalkyl which has 1 to 5 carbon atoms in the alkyl moiety and is unsubstituted or substituted by hydroxyl, chlorine and/or methyl, -COY<sub>12</sub> or -SO<sub>2</sub>Y<sub>13</sub>, or, if u is 2,

 $Y_2$  is alkylene having 2 to 16 carbon atoms, alkenylene having 4 to 12 carbon atoms, xylylene, alkylene which has 3 to 20 carbon atoms, is interrupted by one or more -O- atoms and/or is substituted by hydroxyl, -CH<sub>2</sub>CH(OH)CH<sub>2</sub>-O-Y<sub>15</sub>-OCH<sub>2</sub>CH(OH)CH<sub>2</sub>, -CO-Y<sub>16</sub>-CO-, -CO-NH-Y<sub>17</sub>-NH-CO- or -(CH<sub>2</sub>)<sub>m</sub>-CO<sub>2</sub>-Y<sub>18</sub>-OCO-(CH<sub>2</sub>)<sub>m</sub>, in which m is 1, 2 or 3,

 $Y_8$  is alkyl having 1 to 18 carbon atoms, alkenyl having 3 to 18 carbon atoms, alkyl which has 3 to 20 carbon atoms, is interrupted by one or more oxygen or sulfur atoms or -NT<sub>6</sub>- and/or is substituted by hydroxyl, alkyl which has 1 to 4 carbon atoms and is substituted by -P(O)(OY<sub>14</sub>)<sub>2</sub>, -NY<sub>9</sub>Y<sub>10</sub> or -OCOY<sub>11</sub> and/or hydroxyl, alkenyl having 3 to 18 carbon atoms, glycidyl, or phenylalkyl having 1 to 5 carbon atoms in the alkyl moiety,

 $Y_9$  and  $Y_{10}$  independently of one another are alkyl having 1 to 12 carbon atoms, alkoxyalkyl having 3 to 12 carbon atoms, dialkylaminoalkyl having 4 to 16 carbon atoms or cyclohexyl having 5 to 12 carbon atoms, or  $Y_9$  and  $Y_{10}$  together are alkylene, oxaalkylene or azaalkylene having in each case 3 to 9 carbon atoms.

Y<sub>11</sub> is alkyl having 1 to 18 carbon atoms, alkenyl having 2 to 18 carbon atoms or phenyl,

 $Y_{12}$  is alkyl having 1 to 18 carbon atoms, alkenyl having 2 to 18 carbon atoms, phenyl, alkoxy having 1 to 12 carbon atoms, phenoxy, alkylamino having 1 to 12 carbon atoms or phenylamino,

Y<sub>13</sub> is alkyl having 1 to 18 carbon atoms, phenyl or alkylphenyl having 1 to 8 carbon atoms in the alkyl radical.

Y<sub>14</sub> is alkyl having 1 to 12 carbon atoms or phenyl,

 $Y_{15}$  is alkylene having 2 to 10 carbon atoms, phenylene or a group -phenylene-M-phenylene- in which M is -O-, -S-, -SO<sub>2</sub>-, -CH<sub>2</sub>- or -C(CH<sub>3</sub>)<sub>2</sub>-,

 $Y_{16}$  is alkylene, oxaalkylene or thiaalkylene having in each case 2 to 10 carbon atoms, phenylene or alkenylene having 2 to 6 carbon atoms,

 $Y_{17}$  is alkylene having 2 to 10 carbon atoms, phenylene or alkylphenylene having 1 to 11 carbon atoms in the alkyl moiety, and

Y<sub>18</sub> is alkylene having 2 to 10 carbon atoms or alkylene which has 4 to 20 carbon atoms and is interrupted once or several times by oxygen;

in the compounds of the formula (IV) x is an integer from 1 to 3 and the substituents L independently of one another are hydrogen, alkyl, alkoxy or alkylthio having in each case 1 to 22 carbon atoms, phenoxy or phenylthio.

9. (currently amended): A concentrated aqueous polymer dispersion according to claim 5 wherein the sterically hindered amine is selected from the group consisting of bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate, bis(2,2,6,6-tetramethyl-4-piperidyl)succinate, bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate, bis(1-octyloxy-2,2,6,6-tetramethyl-4-piperidyl)sebacate, bis(1,2,2,6,6-pentamethyl-4-piperidyl) n-butyl-3,5-di-tert-butyl-4-hydroxybenzylmalonate, the condensate of 1-(2-hydroxyethyl)-2,2,6,6-tetramethyl-4-piperidyl)hexamethylenediamine and 4-tert-octylamino-2,6-dichloro-1,3,5-triazine, tris(2,2,6,6-tetramethyl-4-piperidyl)nitrilotriacetate, tetrakis(2,2,6,6-tetramethyl-4-piperidyl)-1,2,3,4-butane-tetracarboxylate, 1,1'-(1,2-ethanediyl)-bis(3,3,5,5-tetramethylpiperazinone), 4-benzoyl-2,2,6,6-tetramethylpiperidine, 4-stearyloxy-2,2,6,6-tetramethylpiperidine, bis(1,2,2,6,6-pentamethylpiperidyl)-2-n-butyl-2-(2-hydroxy-3,5-di-tert-butylbenzyl)malonate, 3-n-octyl-7,7,9,9-tetramethyl-1,3,8-triazaspiro[4.5]decan-2,4-dione, bis(1-octyloxy-2,2,6,6-

tetramethylpiperidyl)succinate, linear or cyclic condensates of N,N'-bis-(2,2,6,6-tetramethyl-4piperidyl)hexamethylenediamine and 4-morpholino-2,6-dichloro-1,3,5-triazine, the condensate of 2-chloro-4,6-bis(4-n-butylamino-2,2,6,6-tetramethylpiperidyl)-1,3,5-triazine and 1,2-bis(3-aminopropylamino)ethane, the condensate of 2-chloro-4,6-di-(4-n-butylamino-1,2,2,6,6pentamethylpiperidyl)-1,3,5-triazine and 1,2-bis-(3-aminopropylamino)ethane, 8-acetyl-3-dodecyl-7.7,9,9-tetramethyl-1,3,8-triazaspiro[4.5]decane-2,4-dione, 3-dodecyl-1-(2,2,6,6-tetramethyl-4piperidyl)pyrrolidin-2,5-dione, 3-dodecyl-1-(1,2,2,6,6-pentamethyl-4-piperidyl)pyrrolidine-2,5-dione, a mixture of 4-hexadecyloxy- and 4-stearyloxy-2,2,6,6-tetramethylpiperidine, a condensation product of N,N'-bis(2,2,6,6-tetramethyl-4-piperidyl)hexamethylenediamine and 4-cyclohexylamino-2,6-dichloro-1,3,5-triazine, a condensation product of 1,2-bis(3-aminopropylamino)ethane and 2,4,6-trichloro-1,3,5triazine as well as 4-butylamino-2,2,6,6-tetramethylpiperidine-(CAS-Reg. No. [136504-96-6]); N-(2.2.6.6-tetramethyl-4-piperidyl)-n-dodecylsuccinimide, N-(1,2,2,6,6-pentamethyl-4-piperidyl)-ndodecylsuccinimide, 2-undecyl-7,7,9,9-tetramethyl-1-oxa-3,8-diaza-4-oxo-spiro[4,5]decane, a reaction product of 7,7,9,9-tetramethyl-2-cycloundecyl-1-oxa-3,8-diaza-4-oxospiro [4,5]decane und epichlorohydrin, 1,1-bis(1,2,2,6,6-pentamethyl-4-piperidyloxycarbonyl)-2-(4-methoxyphenyl)ethene, N,N'-bis-formyl-N,N'-bis(2,2,6,6-tetramethyl-4-piperidyl)hexamethylenediamine, diester of 4-methoxymethylene-malonic acid with 1,2,2,6,6-pentamethyl-4-hydroxypiperidine, poly[methylpropyl-3-oxy-4-(2,2,6,6-tetramethyl-4-piperidyl)]siloxane and reaction product of maleic acid anhydride-α-olefincopolymer with 2,2,6,6-tetramethyl-4-aminopiperidine, 1,2,2,6,6-pentamethyl-4-aminopiperidine, 2,4-bis[N-(1-cyclohexyloxy-2,2,6,6-tetramethylpiperidine-4-yl)-N-butyl-amino]-6-(2-hydroxyethyl)amino-1,3,5-triazine, 1-(2-Hydroxy-2-methylpropoxy)-4-octadecanoyloxy-2,2,6,6-tetramethylpropoxy 5-(2-ethylhexanoyl)oxymethyl-3,3,5-trimethyl-2-morpholinone or a compound

in which n is from 1 to 15.

- 10. (currently amended): A process for the preparation of a concentrated aqueous polymer dispersion with an average particle size of less than 1000 nm comprising the step\_of polymerizing at least one ethylenically unsaturated monomer in the presence of a non-polar organic light stabilizer by heterophase radical polymerization; wherein the weight ratio of non-polar organic light stabilizer to polymer carrier formed from the ethylenically unsaturated monomer is greater than 50 parts of light stabilizer per 100 parts of polymer carrier.
- 11. (currently amended): A process according to claim 10 comprising the steps of
  - a) dissolving, emulsifying or dispersing a non-polar organic light stabilizer in at least one ethylenically unsaturated monomer;
  - b) preparing a conventional oil in water emulsion of said light stabilizer dissolved, emulsified or dispersed in at least one ethylenically unsaturated monomer;
  - c) homogenizing the conventional emulsion to a miniemulsion wherein the droplets of the organic phase have an average diameter below 1000 nm;
- d) polymerizing the miniemulsion by adding a polymerization initiator; wherein the weight ratio of non-polar organic light stabilizer to polymer carrier formed from the ethylenically unsaturated monomer is greater than 50 parts of light stabilizer per 100 parts of polymer carrier.
- 12. (original): A polymer powder obtainable by vaporizing the volatile components of the concentrated aqueous polymer dispersion according to claim 1.
- 13. (original): A composition stabilized against thermal, oxidative or light-induced degradation which comprises,
  - (a) an organic material susceptible to thermal, oxidative or light induced degradation, and
  - (b) a concentrated aqueous polymer dispersion according to claim 1.
- 14. (original): °A composition according to claim 13 wherein the amount of component b) is from 0.1 to 40% by weight based on the weight of the solid content of component a).

- 15. (original): A composition according to claim 13 wherein the organic material is a recording material.
- 16. (original): A composition according to claim 15 wherein the recording material is a photographic material or an ink jet material.
- 17. (original): A composition according to claim 15 wherein the recording material is a printed material containing the concentrated aqueous polymer dispersion in an overprint varnish.
- 18. (currently amended): A composition according to claim 13 wherein the organic material (a) is an adhesive, an aqueous emulsion of a natural or synthetic rubber, a water based ink or a water based coating.
- 19. (cancelled).
- 20. (original): A powder coating composition stabilized against thermal, oxidative or light-induced degradation comprising
  - a) a solid binder material; and
  - b) a polymer powder according to claim 12.
- 21. (original): A composition stabilized against thermal, oxidative or light-induced degradation comprising
  - a) a thermoplastic polymer and
  - b) a polymer powder according to claim 12.
- 22. (currently amended): A method of stabilizing an organic material susceptible Use of a concentrated aqueous polymer dispersion according to claim 1 as stabilizer against thermal, exidative or light-induced degradation of organic materials, which are susceptibel to thermal, exidative or light induced degradation, which comprises incorporating therein a stabilizingly effective amount of a concentrated aqueous polymer dispersion according to claim 1.
- 23. (currently amended): A method of stabilizing a powder coating Use of a polymer powder according to claim 12 as stabilizer against thermal, oxidative or light-induced degradation, which comprises

| incorporating therein a stabilizingly effective amount of a powder coating polymer powder according to |
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| claim 12.  |
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